# SWAC C&D Subcommittee Meeting

#### MassDEP Bureau of Air & Waste

December 6, 2016: 10:00 AM - 12:00 PM

**One Winter Street, Boston** 



### **Agenda**

- Welcome/Introductions
- Market Influence of Earning LEED v4 C&D Waste Recycling Credits
- Update: BMP Development for C&D Generators
- Update: C&D Debris Market Study
- Preliminary Summary of Annual C&D Report Data
- Announcements/Open Discussion
- Closing/Next Steps

## Market Influence of Earning LEED v4 C&D Waste Recycling Credits

- Overview of LEED v4 and discussion:
  - Richard Moore, LEED AP BD+C ID+C
    - Richard Moore Environmental Consulting, Principle
  - Kathleen MacEwen, LEED AP BD+C
    - Consigli Construction, Project Engineering Manager

Emily Fabel, Center for EcoTechnology/RecyclingWorks in Massachusetts

# UPDATE: BMP DEVELOPMENT FOR C&D GENERATORS



## C&D BMP Development



• Spring – Fall 2016: 12 Stakeholder Meetings, over 150 participants.













- Winter 2016/17: Develop draft BMPs
  - EBCNE Annual C&D Summit, January 26: Present Draft BMPs
  - Distribute draft BMPs and collect comments
- Spring 2017: Finalize and post BMPs to RecyclingWorksMA.com
  - Present at March 2017 C&D Subcommittee Meeting
- Comments? info@RecyclingWorksMA.com or (888) 254-5525



#### **C&D BMP Topics**



- Waste Management Plans
- Reuse/Salvage
  - How to work with a nonprofit reuse outlet
    - Tax deductions for donation
  - Other reuse salvage entities
- On-site source separation
  - Materials to source separate
- Comingled collection / C&D Processing
  - What materials are easy vs hard to sort
- LEED V4 C&D recycling credit

# C&D Market Study Update

DSM Environmental Services, Inc.

www.dsmenvironmental.com

December 6, 2016

#### SOW for C&D Debris Market Study

Re-assess effectiveness of C&D debris processing in Massachusetts:

- 1. Characterize the quantity and composition
  - a. Materials received and processed by C&D processors;
- 2. Assess the current and future capacity of recycling end-markets
  - a. Identify top 3 materials to target for increased recycling;
- 3. Evaluate separation and processing advancements
  - a. Reduce dependency on diminishing markets (e.g. landfill dependant use applications)
- 4. Identify Barriers to Recycling
- 5. Make recommendations to C&D Subcommittee for consideration

(Note: MassDEP is focused on the long-term policy goal of promoting increased recycling of C&D materials – 50% by 2020)

#### **Current Status**

- Processor Interviews
  - ReEnergy Roxbury
  - E.L. Harvey & Sons



- Processor Interviews and Visual Characterization
  - Devens Recycling Center
  - Complete Material Management, Southbridge
  - Stoughton Recycling Technologies
  - Champion City Recovery C&D Transfer Station
  - Trojan Recycling, Inc.

# How Visuals Are Conducted and Calculated

- Enumerator starts with waste characterization form with 8 primary material categories and roughly 50 secondary material categories
  - Primary categories: Paper; Plastic; Glass; Organic; C&D; Metal; Special; Mixed MSW
  - Examples of secondary categories:
    - Paper OCC, Other
    - Plastic Buckets, Film, Foamed Insulation, Other
    - Organic Yard Waste, Carpet
    - C&D ABC, Asphalt Roofing, Clean Lumber, Painted and Stained Wood, Plywood, Etc.
    - Special Appliances, Electronics, Bulky Items, Etc.
  - Enumerator walks around pile and writes down the percent of each primary category by volume, with total percent = 100%
  - Then writes percent of all secondary categories (within primary) to total 100% of primary
- Each visual survey entered into excel spreadsheet with volumes converted to pounds/tons based on density for each material
- Data reported in percent by weight

## Visual Survey





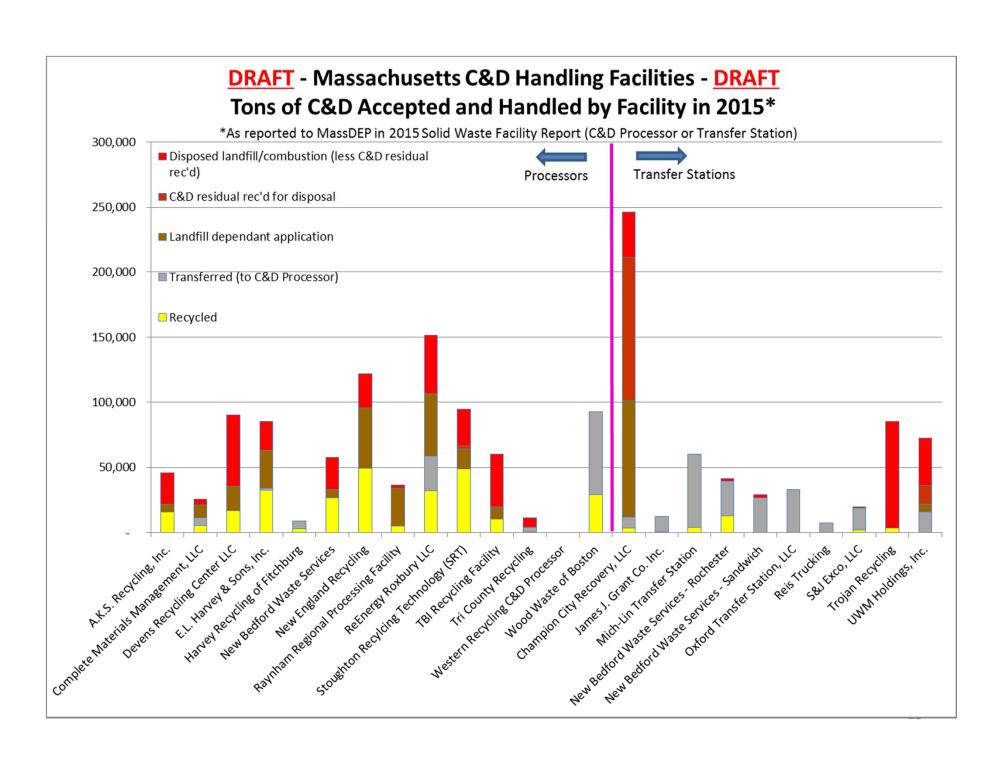
## Interim Findings and Challenges

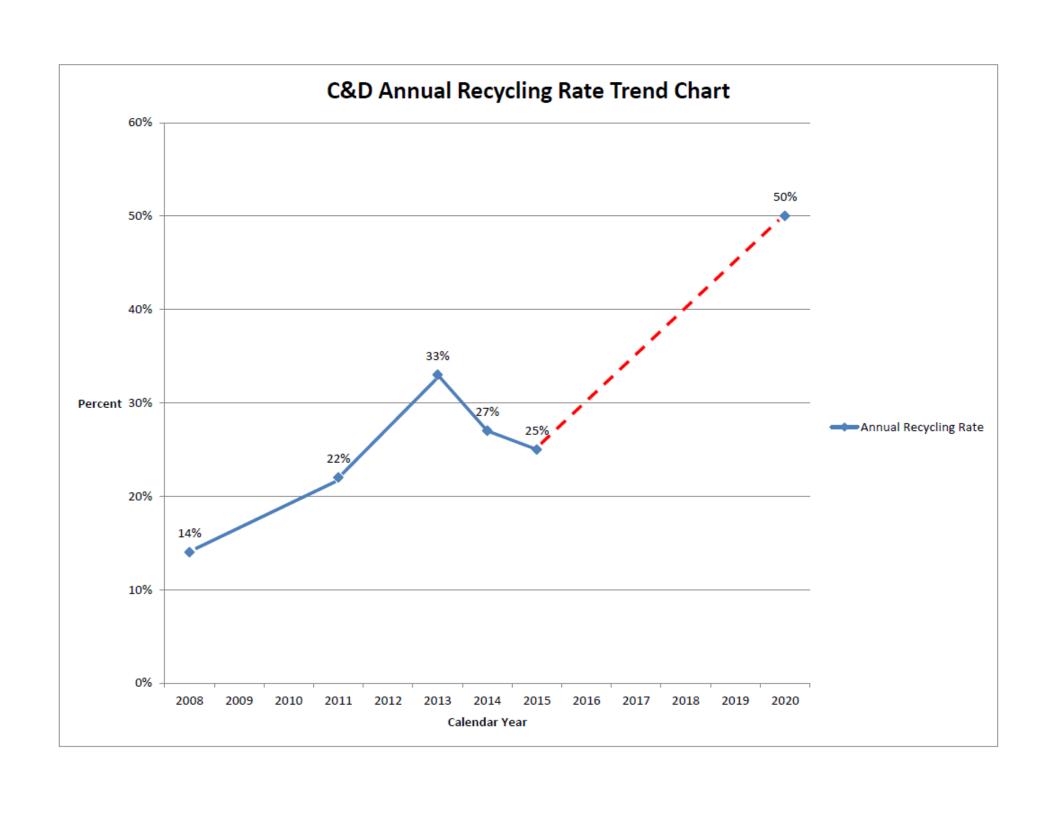
- Not all input is C&D
  - Bulky waste a growing part of incoming streams
- Some portion of stream only suitable for landfill end uses
  - Limited landfills requiring material
- Wood markets are more restrictive than time of last study
- Definition of processing and of C&D varies

## Next Steps for C&D Market Study

- Visuals
  - ReEnergy of Roxbury
  - E. L. Harvey & Sons
- Analysis of Visuals
- Market Survey
- Draft Report to MA DEP
- Final Report

# PRELIMINARY SUMMARY OF CY2015 ANNUAL C&D REPORT DATA





## Announcements/Open Discussion

- EBCNE 11<sup>th</sup> Annual C&D Regional Summit
  - Sheraton Hotel,Framingham
  - Thursday, January 26,2017
  - 8:00 am to 12:00 noon



http://ebcne.org/calendar/

## Closing/Next Steps

- Next MassDEP C&D Subcommittee Meeting
   Ca. March 2017
  - Recommendations of 2016 C&D Market Study
  - Draft BMPs for Generators of C&D Material

#### For More Information:

#### **Point of Contact:**

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